

## ABSTRACT

5           Improved color image display accuracy can be achieved across a computer  
network by obtaining information characterizing the color response of display devices  
associated with a client residing on the computer network, and using the information to  
modify color images delivered to the client. To determine gamma and gray balance, a  
10       set of gray elements is displayed against a dithered gray background representing a gray  
level of approximately 25 to 40% and, more preferably, approximately 33%. In some  
embodiments, the gray elements and the dithered gray background may be limited to the  
green color channel of the display device. Dithered backgrounds in the range  
approaching approximately 33% more closely match the actual midpoint of black to  
15       gray transition for most display devices. The gamma and gray balance information can  
be obtained, for example, by guiding the client through a color profiling process that  
profiles the color response of the display device. For example, such guidance may take  
the form of a series of instructional web pages that are delivered to the client. The web  
pages can be made interactive to enable collection of color characterization data from  
the client.